TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-18-05** **Date: 23-03-17**

Customer : Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.

Address : Kodigehalli Sub division, BBMP, Bangalore.

Project Name : Providing, laying and repairs of name boards in Sahakaranagara, Byatarayanapura, Amruthahalli and surrounding area in Ward no.07-Byatarayanapura, Kodigehalli Sub division.

Agency : Sri.N.N.Sreenivasaiah, No.2405, Shankaranagara, 'E' block, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/196/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-17

Sample ID No : 2017-03-18-05/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/03/2017	23/03/2017	151.22 X 148.98 X 150.33	22529	8.241	352.3	17.4	17.4
2	M20 Concrete	M20	16/03/2017	23/03/2017	151.36 X 150.77 X 151.67	22821	8.284	406.2	17.8	
3	M20 Concrete	M20	16/03/2017	23/03/2017	149.36 X 150.62 X 151.37	22497	8.198	380.2	16.9	

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Prepared by
Harsitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2017-03-18-05** **Date: 13-04-17**
stomer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
ddress	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Providing, laying and repairs of name boards in Sahakaranagara, Byatarayanapura, Amruthahalli and surrounding area in Ward no.07-Byatarayanapura, Kodigehalli Sub division.
Agency	:	Sri.N.N.Sreenivasaiah, No.2405, Shankaranagara, 'E' block, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/196/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-17
Sample ID No	:	2017-03-18-05/02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/03/2017	13/04/2017	151.27 X 149.63 X 151.36	22635	8.241	500.2	22.1	22.6
2	M20 Concrete	M20	16/03/2017	13/04/2017	151.54 X 149.76 X 150.54	22695	8.284	524.2	23.1	
3	M20 Concrete	M20	16/03/2017	13/04/2017	149.72 X 150.62 X 150.33	22551	8.198	509.6	22.6	

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Prepared by
Harsitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(WT)

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-09-09** **Date: 13-03-17**

Customer : Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.

Address : Kodigehalli Sub division, BBMP, Bangalore.

Project Name : Providing, laying and repairs of name boards in Sahakaranagara, Byatarayanapura, Amruthahalli and surrounding area in Ward no.07-Byatarayanapura, Kodigehalli Sub division.

Agency : Sri.N.N.Sreenivasaiah, No.2405, Shankaranagara, 'E' block, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/196/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-03-17

Sample ID No : 2017-03-09-09/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 09-03-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	89	127	12.7	87.3	60-95	75-100	85-100	95-100
4	1.18 mm	183	310	31	69	30-70	55-90	75-100	90-100
5	600 micron	198	508	50.8	49.2	15-34	35-59	60-79	80-100
6	300 micron	263	771	77.1	22.9	5-20	8-30	12-40	15-50
7	150 micron	163	934	93.4	6.6	0-10	0-10	0-10	0-15
8	Pan	66	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

TEST REPORT OF FINE AGGREGATE

) : **CP-2017-03-09-09** **Date: 13-03-17**

ple ID No : 2017-03-09-09/03

'HYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.45	_
2	Specific Gravity	2.57	_
3	Material finer than 75 micron(%)	5.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(W)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-09-09** **Date: 13-03-2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
Address	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Providing, laying and repairs of name boards in Sahakaranagara, Byatarayanapura, Amruthahalli and surrounding area in Ward no.07-Byatarayanapura, Kodigehalli Sub division.
Agency	:	Sri.N.N.Sreenivasaiah, No.2405, Shankaranagara, 'E' block, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/196/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-17
Sample ID No	:	2017-03-09-09/02
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	373	373	7.5	92.5	90-100
3	10 mm	2731	3104	62.1	37.9	25-55
4	4.75 mm	1717	4821	96.4	3.6	0-10
5	Pan	179	5000	100	0	–

AE(W7)
Yelahanka Zone, B.B.M.P.,
Bangalore.
AE(W7)

CIVIL PRO BANGALORE Sig..... Date.....

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-09-09** **Date: 13-03-2017**

Sample ID No : 2017-03-09-09/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.3**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.3**	
3	Specific Gravity	**2.67**	_
4	Bulk Density(Loose) (Kg/l)	**1.53**	_
5	Bulk Density(Compacted) (Kg/l)	**1.59**	_
6	Water Absorption(%)	**0.23**	_
7	Aggregate crushing Value(%)	**24.3**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.1**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Executive Engineer
Yelahanka Zone, B.B.M.P.,
Bangalore.

Prepared by
Harshitha

AE(W7)

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-03-09-09** **Date: 11-03-2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
Address	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Providing, laying and repairs of name boards in Sahakaranagara, Byatarayanapura, Amruthahalli and surrounding area in Ward no.07-Byatarayanapura, Kodigehalli Sub division.
Agency	:	Sri.N.N.Sreenivasaiah, No.2405, Shankaranagara, 'E' block, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/196/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-17
Sample ID No	:	2017-03-09-09/01
Sample Type	:	Ultratech cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-03-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.86	_
2	Finess by Air permeablity method (m^2/kg, Min)	298.2	225m^2/kg, Min
3	Density (gm/cc)	3.17	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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Prepared by
Harshitha

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.
AE(W7)

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R. Karthik Rechan
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-03-09-09** **Date: 07-04-2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
Address	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Providing, laying and repairs of name boards in Sahakaranagara, Byatarayanapura, Amruthahalli and surrounding area in Ward no.07-Byatarayanapura, Kodigehalli Sub division.
Agency	:	Sri.N.N.Sreenivasaiah, No.2405, Shankaranagara, 'E' block, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/196/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-17
Sample ID No	:	2017-03-09-09/01
Sample Type	:	Ultratech cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	10-03-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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Harshitha

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

AE(W7)

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

****End of Report****

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